PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53 (b))

First Inventor NAGARAJAN et al.	
METHOD OF BALANCED COEFFICIENT OF THERMAL Title EXPANSION FOR FLIP CHIP BALL GRID ARRAY	

			Expre	ess Mail	<u>Label No.</u>	EV 32244	0807 US		
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application				ADDRESS TO: Commissioner for Patents Mail StopPatent Application P.O. Box 1450, Alexandria, VA 22313-1450					
1. X Fee Transmit	ittal Form (e.g., PTO/SB/17) al and a duplicate for fee processing)			7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)					
<u></u>	ims small entity status.			Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)					
3. X Specification (preferred arrange				a. Computer Readable Form (CRF)					
- Descriptive title	of the Invention e to Related Applications		•	b. Specification Sequence Listing on:					
- Statement Rega	e to Related Applications irding Fed sponsored R quence listing, a table.				· i.	CD-ROM	or CD-R (2 copies); or		
or a computer p	rogram listing appendix				ii. [paper			
 Background of t Brief Summary 	of the Invention			c. Statements verifying identity of above copies					
 Brief Description Detailed Description 	n of the drawings (if filed) otion)	<u> </u>	ACCOMPANYING APPLICATION PARTS					
- Claim(s) - Abstract of the c	tisclosure		9.	. X	Assignmen	t Papers (cove	r sheet & document(s))		
The state of the distriction				. [] ;	37 CFR 3.7 (when then	'3(b) Statemen e is en essigne	Power of Attorney		
4. X Drawing(s)(35 U.S.C.113) [Total Sheets 3]				. 🗇 1	English Tra	nslation Docu	ment (if applicable)		
5. Oath or Declaration [Total Pages 4]			12.	12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations					
a. Newly executed (original or copy)				13. Preliminary Amendment					
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)				14. X Two (2) Return Receipt Postcards (MPEP 503) (Should be specifically itemized)					
DELETION OF INVENTOR(S) signed statement attached deleting inventor(s)				15. Certified Copy of Priority Document(s) (if foreign priority is claimed)					
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).				16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent					
						ralent			
6. Application Data Sheet. See 37 CFR 1.76				17. X sheet					
18. If a CONTINUING AI or in an Application Data	PPLICATION, check app Sheet under 37 CFR 1.	ropriate box, a 76:	nd supply	the requi	isite inform	ation below an	d in a preliminary amendment,		
Continuation X Divisional Continuation-in-part (CIP) of prior application No.: 09/680,759									
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•	Leo J. Peters								
Name	LSI Logic Corporation								
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Country		Telephone	(408) 43	33-8708		Fax	(408) 433-7770	_	
Name (Print/Type)	Eric J. Whitesel	Eric J. Whitesell Registration No. (Attorn					38,657	7	
B. A. J. H. L. M.					7		7		
Signature	MANNAUL LAINETIM					Date	July 30, 2003	1	

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July 30, 2003

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a a collection of information unless it displays a valid OMB control number. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a Complete if Known FEE TRANSMITTAL **Application Number** Filing Date for FY 2003 First Named Inventor NAGARAJAN et al. **Examiner Name** Express Mail No. EV 322440807 US Art Unit Applicant claims small entity status. See 37 CFR 1,27 \$790.00 TOTAL AMOUNT OF PAYMENT Attorney Docket No 00-253/ID 81605 METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) ADDITIONAL FEES Credit Card Fee X Deposit Account (\$) Code Fee Description (\$) Fee Paid 1051 130 2051 65 Surcharge - late fling fee or oath 12-2252 Surcharge - late provisional filling fee or 1052 50 2052 25 cover sheet **LSI Logic Corporation** 1053 130 1053 130 Non-English specification missioner is authorized to: (check all that apply) 1812 2,520 1812 2,520 For filing a request for exparte reexamination X Charge fee(s) indicated below Credit any overpayments Requesting publication of SIR prior to 1804 9201 1804 9201 X Charge any additional fee(s) during the pendency of this application 1805 1,840* 1805 1,840* Requesting publication of SIR after Charge fee(s) indicated below, except for the filling fee 1251 2251 55 110 Extension for reply within first month the above-identified denosit account 1252 410 2252 205 Extension for reply within second month **FEE CALCULATION** 1253 930 2253 465 Extension for reply within third month 1. BASIC FILING FEE 1254 1,450 2254 725 Extension for reply within fourth month **Small Entity** Large Entity 1255 2255 1,970 Extension for reply within fifth month Fee Description Fee (\$) (\$) 1401 320 2401 Fee Paid 160 Notice of Appeal 1001 750 2001 375 Utility filing fee 750.00 1402 320 2402 Fitting a brief in support of an appeal 1002 330 Design tiling fee 2002 165 1403 280 2403 Request for oral hearing 1003 520 2003 260 Plant filing fee 1451 1,510 1451 Petition to institute a public use proceeding 1004 750 2004 375 Reissue filing tee 1452 110 2452 Petition to revive - unavoidable 1005 160 2005 Provisional filing fee 1453 1,300 Petition to revive - unintentional 2453 SUBTOTAL (1) 1501 1,300 2501 850 Utility Issue fee (or reissue) 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1502 470 2502 235 Design Issue fee Fee from below Extra Claims 1503 630 2503 315 Fee Paid Total 9 -20*** 0 X 18.00 1460 130 1460 130 Petitions to the Commissioner Independent 2 0 84.00 1807 50 1807 Processing fee under 37 CFR 1.17(q) 50 Vultiple Dependent 1806 180 1806 180 Submission of Information Disclosure Stmt 6021 40 Entity Small Entity 6021 Recording each patent assignment per Large 40 \$40.00 Fee (\$) Fee Code Fee (\$) Fee Code Fee Description 750 2809 Filing a submission after final rejection (37 CFR § 1.129(a)) 375 1202 2202 18 8 Claims in excess of 20 For each additional invention to be examined (37 CFR § 1.129(b)) 1201 2201 84 42 Independent dains in excess of 3 1810 750 2810 375 1203 280 2203 140 Multiple dependent claim, if not paid 1204 *Reissue independent claims 84 2204 42 1801 750 2801 375 Request for Continued Examination (RCE) over original pater Reissus claims in excess of 20 1205 Request for expedited examination of a design application 1802 900 1802 and over original patent SUBTOTAL (2) (\$)00.00 Other fee (specify) "or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) \$40.00 SUBMITTED BY Complete (if applicable) Registration No. (Attorney/Agent) Name (Print/Type) Whiteself 38 657 (858) 552-1311 Signature

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This collection of information in frequired by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 37 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Depairment of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.